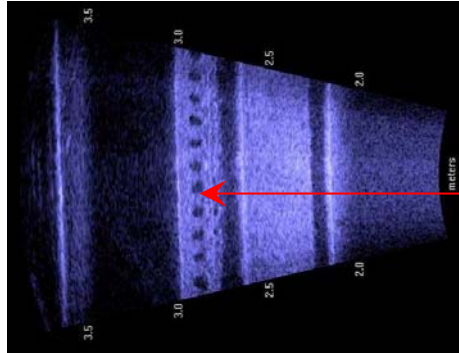




**US Army Corps
of Engineers®**
Engineer Research and
Development Center

High-Resolution Acoustic Imaging System

Description An acoustical imaging camera developed by the private sector is being integrated into deployable system to be used by U.S. Army Engineer Research and Development Center (ERDC) engineers from the Information Technology Laboratory to help with inspection of



Inspection of Steel Hydraulic Structures in turbid water.

Issue Divers are frequently used in the inspection, maintenance, construction, and placement phases of underwater construction projects. However in turbid water, the lack of visibility severely reduces their effectiveness and subjects them to potentially dangerous operational conditions. In addition, the diver must wait until he returns to the surface before sketching what he saw or felt with his hands while underwater.

Users Corps of Engineers Districts and other Federal Agencies

Products Technical Note on Gate Inspection Techniques using Acoustical Imaging System and describing deploying techniques.

Benefits The acoustic imaging system can be used to expedite construction, repair, and maintenance of underwater structures; provide safer conditions for employees engaged in environmental, wet construction, and structural inspection activities; and enable the user to immediately and permanently log underwater images from inspections.

Corps Program Navigation Systems Research Program, Mr. James Clausner, Program Manager.

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